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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/649,990	08/27/2003	Murty Mangena		6744
7590 08/28/2007 Dr. Murty Mangena			EXAMINER	
518 Codell Drive			FUBARA, BLESSING M	
Lexington, KY 40509			ART UNIT	PAPER NUMBER
			1618	
			MAIL DATE	DELIVERY MODE
			08/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)	_
Office Action Summary		10/649,990	MANGENA ET AL.	
		Examiner	Art Unit	
		Blessing M. Fubara	1618	
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with th	e correspondence address	
WHIC - Exter after - If NO - Failui Any r	CORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply b rill apply and will expire SIX (6) MONTHS for cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).	
Status				
2a)⊠	Responsive to communication(s) filed on <u>17 Ap</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.	•	
Dispositi	on of Claims			
5)□ 6)⊠ 7)□ 8)□ Applicati	Claim(s) 1-8 and 10-20 is/are pending in the appearance of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-8 and 10-20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the examine to the second seco	vn from consideration. r election requirement. r. epted or b) □ objected to by the drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	
44)	Replacement drawing sheet(s) including the correct			
	The oath or declaration is objected to by the Ex	aminer. Note the attached Off	ice Action or form PTO-152.	
12)[a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau see the attached detailed Office action for a list	s have been received. s have been received in Applic ity documents have been rece i (PCT Rule 17.2(a)).	cation No eived in this National Stage	
2) Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 4/17/07.	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:	l Date	

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DETAILED ACTION

Examiner acknowledges receipt of properly executed declaration, IDS, amendment to the specification and claims, and remarks, all filed 4/17/07.

Previous rejections that are not reiterated herein are withdrawn.

Information Disclosure Statement

1. The information disclosure statement filed 4/17/07 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Further, it is brought to applicant's attention that page 1 of the document titled "information disclosure have as the serial number 10/646,990 instead of 649,990. Correction is respectfully requested.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-8 and 10-20 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Lawter et al. (US 5,000,886) in view of Oshlack et al. (US 6,716,449) or Hille et al. (JP 403103732A).

Lawter prepares microcapsules of pharmaceutical agents in the presence of halogenated organic solvent such as methylene chloride (column 5, lines 20-27), phosphate buffer, PLGA having viscosity in one example being 0.65 dl/g (Example 4) and viscosity in another example being 0.29 dl/g (Example 5). Lawter contemplates preparing many pharmaceutical agents including buprenorphine (column 4, lines 10-40 with specific emphasis on line 37 for the buprenorphine). While the embodiments exemplified do not contain buprenorphine, it is noted that any of the drugs listed in the column 3, line 48 to column 4 line 40 can be prepared administered by the process of Lawter.

It is prima facie obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose....[T]he idea of combining them flows logically from their having been

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individually taught in the prior art." In re Kerkhoven, 626 F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 1980).

In this case, a third composition that contains PLGA having different viscosities and containing buprenorphine is rendered obvious with expectation of success that the compositions can be successfully formulated.

Lawter contemplates administering the formulation to a subject by any means or route (column 5, lines 56 and 57) and administering a buprenorphine formulation to a subject would mean that the individual is identified as needing treatment with buprenorphine and thus the method of claim 20 is met.

Lawter's buprenorphine formulation does not contain polyvinyl alcohol. However, buprenorphine is known in the art to be formulated with polyvinyl alcohol as is disclosed by Oshlack in example 20 and as disclosed in the English abstract of Hille (JP403193732A). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to formulate the buprenorphine formulation according to Lawter and include PVA as suggested by Oshlack or Hille.

Response to Arguments

5. Applicant's arguments filed 4/17/07 have been fully considered but they are not persuasive.

Applicant argues that a) buprenorphine is one of a long list of active agents, and because the pharmaceutical art is unpredictable (quoting examiner), one cannot pick and chose the elements of Lawter to arrive at the claimed invention so that making a third composition from two examples that teach different viscosities flies in the face of the unpredictable

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nature of the pharmaceutical art, b) "Lawter teaches away from the claimed invention by describing the use of one PLGA having one viscosity and not a mixture of different materials," c) Oshlack does not overcome the deficiencies of Lawter because Example 20 of Oshlack is prophetic and no viscosity is specified, d) Hille describes buprenorphine transdermal patch and mentions PVA among other materials.

Response:

Lawter is concerned with preparing microcapsules in which any of the drugs listed is combined with polymers such as polyglycolide, polylactide, poly(glycolide-co-lactide) or blends thereof (column 3, line 50 to column 4 line 60). Regarding a), any of the drugs can be formulated according to the process of Lawter and buprenorphine is specifically named as one of the drugs to be formulated. Regarding b), Lawter does not teach away form the invention because Lawter specifically teaches that blends of polymers can be used (column 4, lines 59 and 60). Regarding c), while applicant refers to example 20 of Oshlack as prophetic, the example teaches combining buprenorphine, poly(lactide-co-glycolide) and polyvinyl alcohol and Oshlack is relied upon for teaching formulating buprenorphine with polyvinyl alcohol and also for d), Hille is relied upon teaching formulating buprenorphine with polyvinyl alcohol. Therefore, one would arrive at the claimed invention by using the teaching of Lawter that blends of polymers can be used when formulating active agents such as buprenorphine and the examples guides the artisan to use specific PLGA's having the specific viscosities.

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6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blessing M. Fubara whose telephone number is (571) 272-0594. The examiner can normally be reached on 7 a.m. to 5:30 p.m. (Monday to Thursday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Hartley can be reached on (571) 272-0616. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Blessing Fubara (Patent Examiner Tech. Center 1600)

MICHAEL G. HARTLEY
SUPERVISORY PATENT EXAMINER